

### Abstract

The present invention provides novel use of the MK family that is used alone as an agent for proliferating hematopoietic stem cells and hematopoietic precursor cells. The invention also provides an agent for remarkably enhancing the above-described effect for promoting the proliferation of hematopoietic stem cells and hematopoietic precursor cells, comprising the MK family in combination with known hematopoietic factors such as IL-3, IL-6, G-CSF, GM-CSF, M-CSF, SCF, and EPO.